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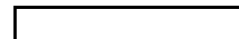
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PHOTOGRAPHIC INTERPRETATION REPORT



COMMUNICATIONS
FACILITIES
SKRUNDA AND
OLENEGORSK AREAS
USSR



DECEMBER 1967

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PHOTOGRAPHIC INTERPRETATION REPORT

COMMUNICATIONS FACILITIES SKRUNDA AND OLENEGORSK AREAS USSR

DECEMBER 1967

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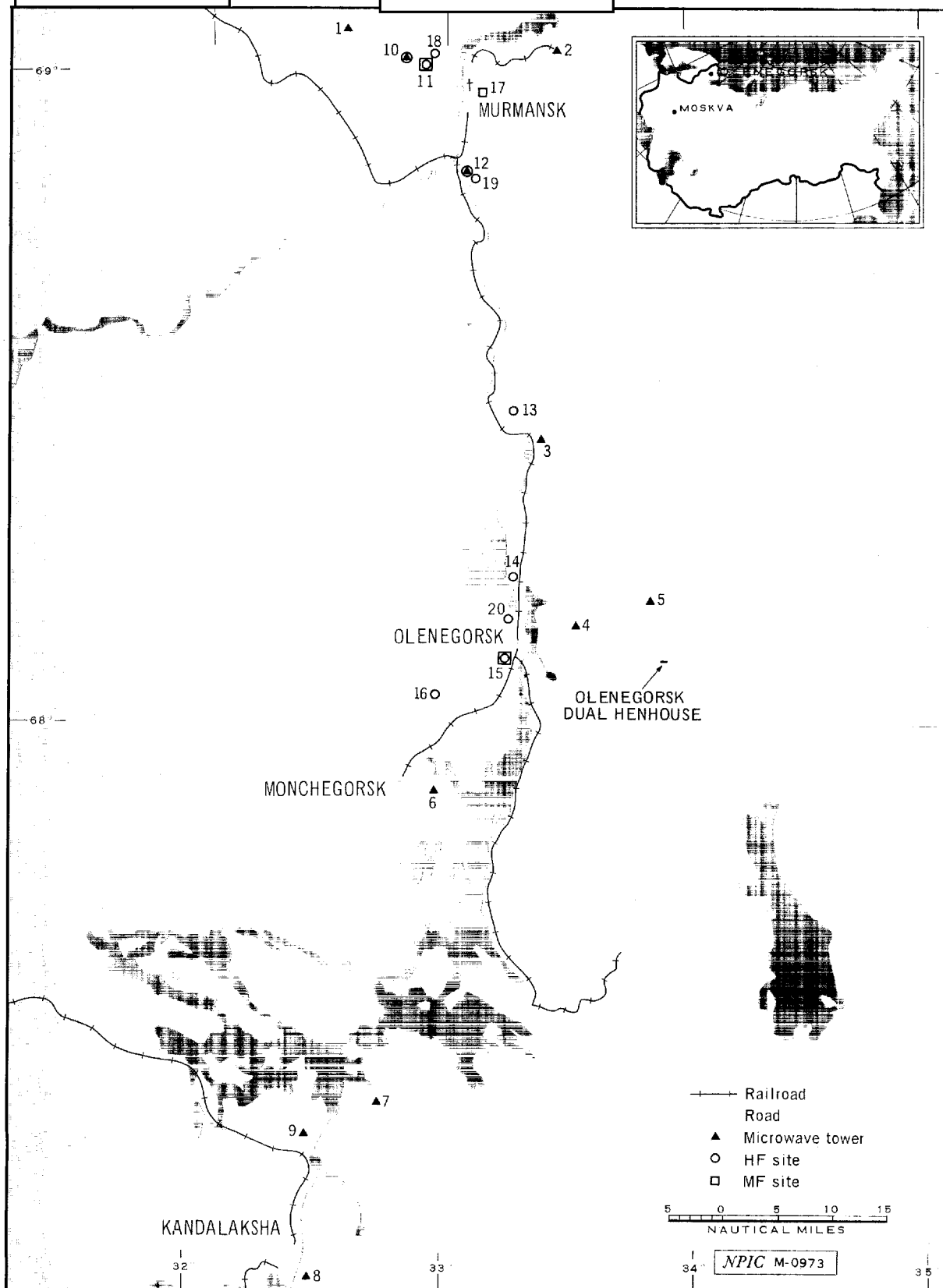


FIGURE 1. LOCATION OF MICROWAVE, HF, AND MF SITES IN THE OLENEGORSK AREA.

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INTRODUCTION

This report is in answer to NSA requirement NSA/SOC/R62-67, which requests a search and description of all communications antennas within a 50-nautical-mile (nm) radius of the Skrunda and Olenegorsk HEN HOUSE antennas. This search and report are part of a continuing effort to isolate the communications antennas which are used to support the HEN HOUSE antennas cited. A substantial number of communications antennas, including 9 microwave towers, are described in this report. It has not been possible to identify any physical connections between the communications antennas or the microwave towers and the HEN HOUSE antennas on available photography.

All of the communications facilities identified during this search are described herein except those adequately described in previous NPIC reports.

MICROWAVE COMMUNICATIONS FACILITIES

Eleven microwave towers were identified in the area between Kandalaksha and Murmansk. Nine of these facilities are briefly described in this report and all of them are keyed to Figure 1. The 2 other towers are associated with HF communications sites and are briefly described with the HF communications sites. Neither the exact type of microwave antenna nor its orientation could be determined from available photography.

Murmansk Microwave Facility

The Murmansk Microwave Facility (Figure 2) is 13 nm northwest of Murmansk at 69-05-00N 032-34-00E and is designated 1 on Figure 1. This road-served facility consists of a microwave antenna on a mast with a control building adjacent to the base of the mast. There are 3 support buildings near the control building. No security fence is apparent on available photography.



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FIGURE 2. MURMANSK MICROWAVE FACILITY.



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FIGURE 3. SEVEROMORSK MICROWAVE FACILITY.

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Severomorsk Microwave Facility

The Severomorsk Microwave Facility (Figure 3) is 0.8 nm southeast of Severomorsk at 69-03-45N 033-28-00E and is designated 2 on Figure 1. This secured and road-served facility consists of a microwave antenna on a self-supporting tower and a control building adjacent to the base of the tower. There are also 5 support buildings within the secured area.

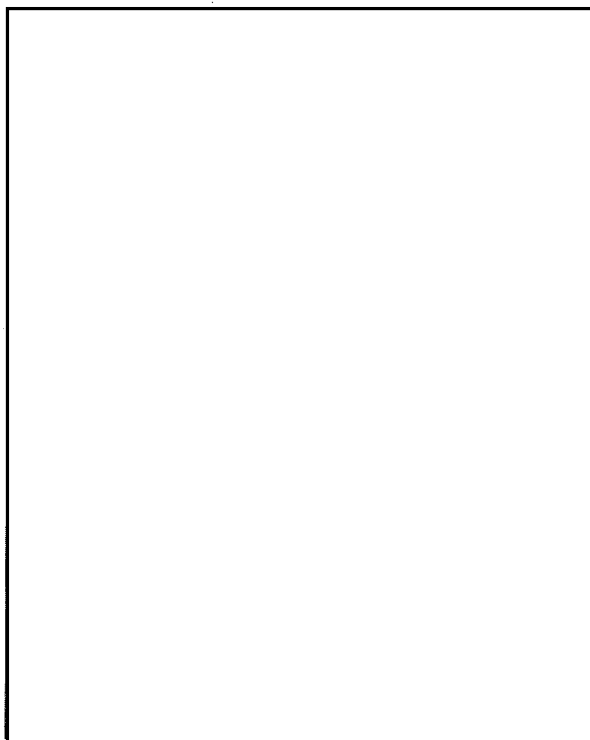


FIGURE 4. TAYBOLA MICROWAVE FACILITY.

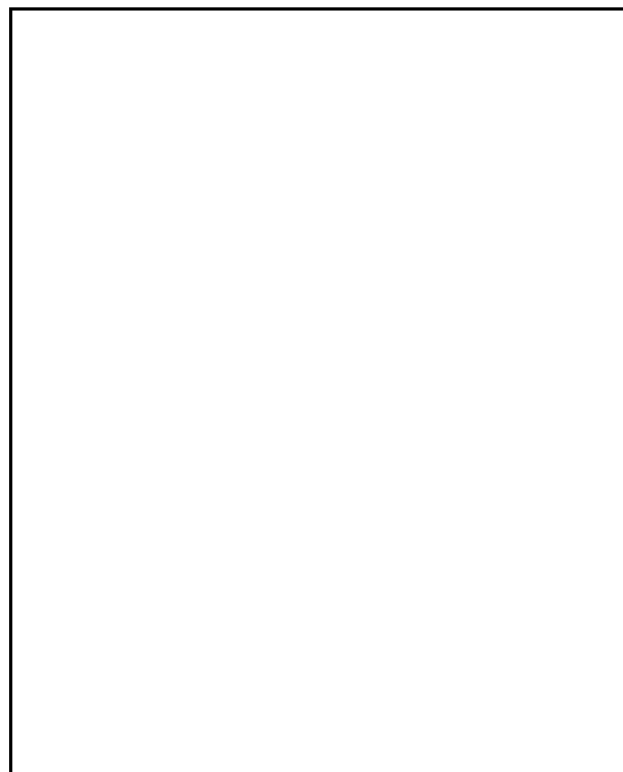
Taybola Microwave Facility

The Taybola Microwave Facility (Figure 4) is 19.5 nm northeast of Olenegorsk at 68-27-00N 033-23-00E and is designated 3 on Figure 1. This secured and road-served facility consists of 2 microwave antennas on a single mast with the control building adjacent to the base of the support mast.

Olenegorsk Microwave Facility 1

The Olenegorsk Microwave Facility 1 (Figure 5) is 6 nm east of Olenegorsk and 1 nm northeast of Olenegorsk Airfield at 68-09-30N 033-32-20E and is designated 4 on Figure 1. This secured and road-served facility consists of a microwave antenna on a guyed mast with a control building adjacent to the base of the mast, and 1 support building. There are also 3 pole masts of unidentified configuration near the control building.

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Olenegorsk Microwave Facility 2

The Olenegorsk Microwave Facility 2 (Figure 6) is 8.5 nm northeast of Olenegorsk at 68-11-45N 033-48-40E and is designated 5 on Figure 1. This secured and road-served facility consists of a microwave antenna with the control building adjacent to the base of the support mast.

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FIGURE 6. OLENEGORSK MICROWAVE FACILITY 2.

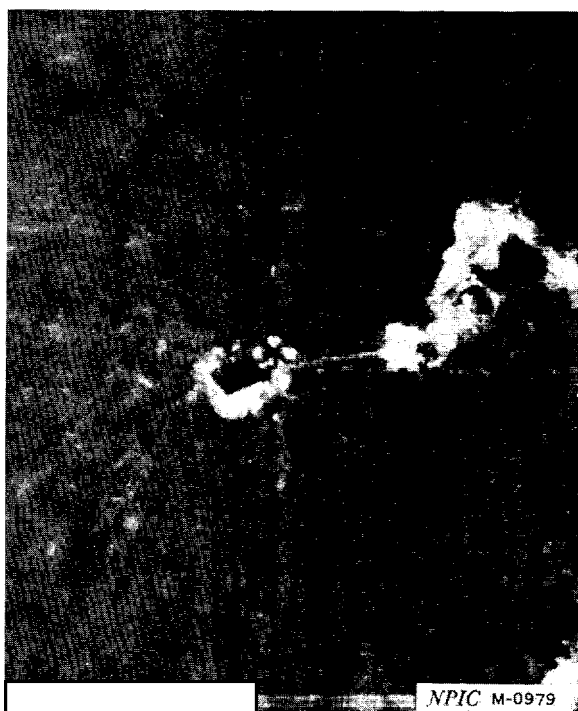


FIGURE 7. MONCHEGORSK MICROWAVE FACILITY.

Monchegorsk Microwave Facility

Monchegorsk Microwave Facility (Figure 7) is 1 nm southeast of Monchegorsk at 67-50-00N 032-58-30E and is designated 6 on Figure 1. The facility is road served and consists of a microwave antenna with a control building adjacent to the base of the supporting mast. No other buildings or security fence are apparent.

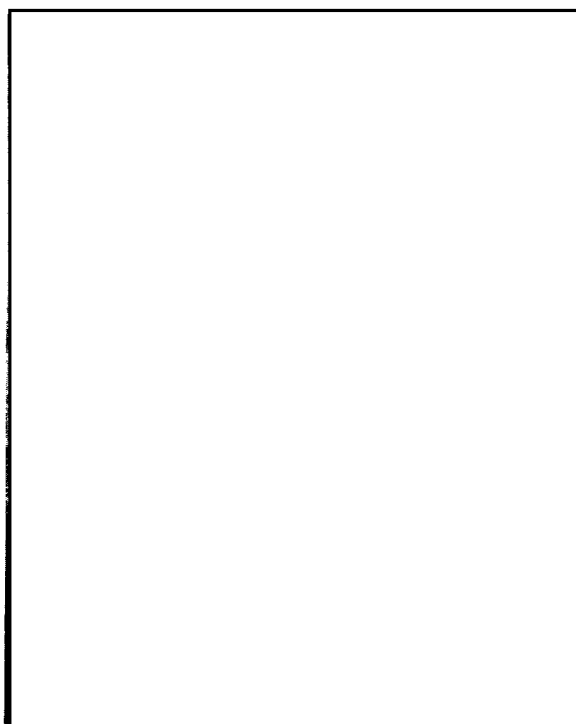


FIGURE 8. AFRIKANDA MICROWAVE FACILITY.

Afrikanda Microwave Facility

The Afrikanda Microwave Facility (Figure 8) is 19 nm north of Kandalaksha at 67-25-30N 032-46-00E and is designated 7 on Figure 1. This secured and road-served facility consists of a microwave antenna with a control building adjacent to the base of the supporting mast. There is also 1 support building in the secured area.

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Kandalaksha Microwave Facility 1

The Kandalaksha Microwave Facility 1 (Figure 9) is 1 nm east of Kandalaksha at 67-09-00N 032-27-30E and is designated 8 on Figure 1. This secured and road-served facility consists of a microwave antenna on a self-supporting tower with a control building adjacent to the base of the tower. There are also 3 small support buildings in the secured area.



FIGURE 9. KANDALAKSHA MICROWAVE FACILITY 1.

Kandalaksha Microwave Facility 2

The Kandalaksha Microwave Facility 2 (Figure 10) is 13 nm north of Kandalaksha at 67-22-20N 032-28-30E and is designated 9 on Figure 1. This facility is road served and consists of 2 microwave antennas on a mast with the control building adjacent to the base of the mast. Two nearby buildings are probably support structures. No security fence is apparent.

MURMANSK AREA COMMUNICATIONS FACILITIES

The Murmansk area communications facilities, in addition to the previously described microwave facilities, consist of 3 HF facilities, 2 ionospheric scatter antenna facilities, and 2 MF vertical radiators including 1 which is associated with an HF facility.

As mentioned above in the section on microwave facilities, there are 2 microwave antennas associated with the HF facilities in the Murmansk area. The 2 ionospheric facilities were previously reported 2, 3/ and will not be repeated in this report.

Murmansk HF Communications Facility

The Murmansk HF Communications Facility (Figures 11 and 12) is secured and 6.5 nm northwest of Murmansk at 69-02N 032-51E and designated 10 on Figure 1. The facility contains

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at least 1 pair of double day/night rhombic antennas, 2 double rhombic antennas, 10 horizontal dipole antennas, 1 pair of tower-supported day/night horizontal dipole-type antennas, 1 microwave tower, and a central control building. In Table 1, the linear measurements and heights are considered to be accurate within plus or minus 5 percent and the azimuthal measurements are accurate within plus or minus []

5 pole masts for an unidentified antenna configuration, a control building with 2 nearby cooling ponds, and 5 support buildings. In Table 2, linear measurements are accurate within plus or minus 5 percent and azimuthal measurements are accurate within plus or minus []

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Murmansk HF Communications Receiving Facility

Murmansk HF/MF Communications Facility

Murmansk HF/MF Communications Facility (Figures 13 and 14) is 4 nm northwest of Murmansk at 69-00-40N 032-56-00E and is designated 11 on Figure 1. The facility consists of 3 rhombic antennas which are described in Table 2, 1 vertical radiator approximately 885 feet high with an associated transmitter building,

The Murmansk HF Communications Facility (Figure 15) is 6 nm south of Murmansk at 68-52N 033-04E and is designated 12 on Figure 1. The facility consists of at least 2 fishbone antennas, 1 microwave tower, and 2 buildings. In Table 3, the linear measurements are considered to be probably accurate within plus or minus 5 percent and the azimuthal measurements are accurate within plus or []

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Table 1. Murmansk HF Communications Facility Antennas

Designation	Type	Major Axis (ft)	Minor Axis (ft)	Length of Side (ft)	End Pole Separation (ft)	Mast Height (ft)	Tilt Angle (deg)	Propagation Azimuth (deg)
1	Rhombic	[]	[]	240	60	[]	[]	[]
2	Rhombic	430	[]	240	55			
3	Rhombic	740	[]	410	90			
4	Rhombic	[]	265	235	55			
5	Dipole	--	--	185	--			
6	Dipole	--	--	80	--			
7	Dipole	--	--	75	--			
8	Dipole	--	--	[]	--			
9	Dipole	--	--		--			
10	Dipole	--	--	[]	--			
11	Dipole	--	--		--			
12	Dipole	--	--	330	--			
13	Dipole	--	--	330	--			
14	Dipole	--	--	[]	--			
15	Dipole	--	--		--			
16	Dipole	--	--	[]	--			

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Table 2. Murmansk HF/MF Antennas

Designation	Type	Major Axis (ft)	Minor Axis (ft)	Length of Side (ft)	End Pole Separation (ft)	Pole Height (ft)	Tilt Angle (deg)	Propagation Azimuth (deg)
1	Rhombic	[]	435	[]	[]	Undet	65	[]
2	Rhombic	[]	335	270	[]	Undet	60	
3	Rhombic	[]	350	390	[]	100	70	

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Table 3. Murmansk HF Communications Receiving Antennas

Designation	Type	Length (ft)	Width (ft)	Propagation Azimuth (deg)
1	Fishbone		180	
2	Fishbone		180	120/300

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HIGH-FREQUENCY COMMUNICATIONS FACILITIES IN THE OLENEGORSK AREA

Including a newly identified facility at the Taybola IRBM Complex, there are 5 high-frequency (HF) communications facilities in the Olenegorsk area. Four of these will be described briefly in this report. No significant changes are apparent in the fifth facility, designated 20 on Figure 1, which was previously described. 1/

Kitsa Hardened (Subsurface) Communications Facilities

The Kitsa Hardened (Subsurface) Communications Facilities (Figures 16 and 17), designated 13 on Figure 1, consist of 2 separate installations: one located 1 nm southeast of Kitsa; and the other adjacent to Taybola Launch Site 1 at 68-29-00N 033-15-10E.

The larger of the 2 facilities is secured and consists of an earth-mounded building, a security building, and several communications

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Table 4. Kitsu Hardened (Subsurface) Communications Facility Antennas

Designation	Type	Length (ft)	Leg Length (ft)	Width (ft)	Height (ft)	Included Angle (deg)	Propagation Azimuth (deg)
1	Fishbone		--	85	50	--	
2	Fishbone		--		50	--	
3	Vee		Undet	--	--	90	
4	Vee	--	Undet	--	--	90	
5	Hardened (subsurface)	Undet	--	Undet	--	--	
6	Hardened (subsurface)	Undet	--	Undet	--	--	

antennas which are atop a hill. The antennas include 1 hardened (subsurface) antenna, at least 1 mast-mounted probable VHF antenna, 2 HF fishbone antennas, and 1 large and 1 small quadrant (vee) antennas. An associated area is at the base of the hill and consists of a personnel bunker and several other buildings. The function of this facility is not readily apparent. Even though this facility is in the vicinity of the Taybola IRBM Complex, the signature of the earth-mounded control building is not typical of the other MRBM/IRBM command and control communications facilities. The earth-mounded building has the general appearance of several known air defense sector command and communications buildings, although the function of this building cannot be identified at this time.

The second facility is an earth-mounded building that is considered to be Soviet Rocket Forces (SRF) associated and also having the customary associated hardened (subsurface) antenna. It is located approximately 0.7 nm southeast of the large communications facility and is adjacent to the Taybola IRBM Launch Site 1. This is the smaller of the 2 facilities and consists of several masts of unidentified configuration adjacent to the earth-mounded building. It appears that this facility is SRF-associated and is a portion of or is the communications com-

ponent which supports the Taybola IRBM Complex. In Table 4, the linear measurements are considered to be accurate within plus or minus 5 percent and the azimuthal measurements accurate within plus or minus

Olenegorsk Regional HF Communications Receiving Facility

The Olenegorsk Regional HF Communications Receiving Facility (Figures 18 and 19) is 6 nm north of the town of Olenegorsk at 68-13-40N 033-17-30E and is designated 14 on Figure 1. This facility consists of 12 fishbone antennas, each of the 5-3-3-5 or 2 bay configuration. A control building and at least 12 support buildings are associated with this facility. In Table 5, the linear measurements are considered to be accurate within plus or minus and the azimuthal measurements are accurate within plus or minus

Olenegorsk Regional HF Communications Transmitting Facility

The Olenegorsk Regional HF Communications Transmitting Facility (Figures 20 and 21) is secured and is 1.5 nm south of the town of

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Table 5. Olenegorsk HF Receiving Antennas

Designation	Type	Length (ft)	Width (ft)	Propagation Azimuth (deg)
1	Fishbone			
2	Fishbone			
3	Fishbone			
4	Fishbone			
5	Fishbone			
6	Fishbone			
7	Fishbone			
8	Fishbone			
9	Fishbone			
10	Fishbone			
11	Fishbone			
12	Fishbone			

Olenegorsk at 68-07-30N 033-17-00E and is designated 15 on Figure 1. The antenna field consists of 16 rhombic antennas which are arranged in day/night pairs and 1 control building. Also within the compound is a probable MF vertical transmitter mast [] high with an associated transmitter building. Within the support area are approximately 25 buildings of various functions and sizes. In Table 6, the linear measurements are approximations which are considered to be accurate within plus or minus 10 percent and the azimuthal measurements are probably accurate within plus or minus []

Olenegorsk HF Communications Facility

The Olenegorsk HF Communications Facility (Figures 22 and 23) is 7 nm southwest of the town of Olenegorsk at 68-03N 033-02E and is designated 16 on Figure 1. This facility is under construction and consists of 1 probable control building and at least 16 clearings for rhombic antennas but none of the antenna masts have been identified on available photography. No support buildings have been identified in the area. In Table 7, the linear measurements are approximations and the azimuthal measurements are probably accurate within plus or minus 10 degrees.

Table 6. Olenegorsk HF Transmitting Antennas

Designation	Type	Major Axis (ft)	Minor Axis (ft)	Length of Side (ft)	End Pole Separation (ft)	Pole Height (ft)	Tilt Angle (deg)	Propagation Azimuth (deg)
1	Rhombic	840	410	455	0	□	□	□
2	Rhombic	510	260	300	0			
3	Rhombic	825	□	475	70	Undet	60	
4	Rhombic	480	330	280	55	85	60	
5	Rhombic	900	□	495	□	115	65	
6	Rhombic	505		290		Undet	65	
7	Rhombic	790	□	450	70	Undet	60	
8	Rhombic	520		300	40	90	60	
9	Rhombic	960	□	525	115	Undet	□	
10	Rhombic	590		330	65	90		
11	Rhombic	835	□	475	115	Undet		
12	Rhombic	580		325	□	Undet		
13	Rhombic	900	545	500	100	Undet		
14	Rhombic	490	□	275	70	80		
15	Rhombic	885	565	495	□	Undet		
16	Rhombic	485	355	280	70	80		

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Table 7. Olenegorsk IIF Antennas

Designation	Type	Major Axis (ft)	Minor Axis (ft)	Length of Side (ft)	End Pole Separation (ft)	Pole Height (ft)	Tilt Angle (deg)	Propagation Azimuth (deg)
1	Rhombic	1450	590	780	Undet	Undet	[]	[]
2	Rhombic	980	360	520	Undet	Undet	70	
3	Rhombic	980	360	520	Undet	Undet	70	
4	Rhombic	1020	560	580	Undet	Undet	[]	
5	Rhombic	1200	650	680	Undet	Undet	[]	
6	Rhombic	780	280	415	Undet	Undet	70	
7	Rhombic	900	330	480	Undet	Undet	70	
8	Rhombic	950	540	550	Undet	Undet	60	
9	Rhombic	930	340	495	Undet	Undet	70	
10	Rhombic	850	480	480	Undet	Undet	60	
11	Rhombic	720	565	410	Undet	Undet	[]	
12	Rhombic	450	260	240	Undet	Undet	70	
13	Rhombic	720	565	410	Undet	Undet	[]	
14	Rhombic	920	690	530	Undet	Undet	[]	
15	Rhombic	720	565	410	Undet	Undet	[]	
16	Rhombic	780	580	440	Undet	Undet	--	
17	Poss rhombic	Undet	Undet	Undet	Undet	Undet	Undet	

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Murmansk MF Broadcast Facility

The Murmansk MF Broadcast Facility (Figure 24) is on the north edge of Murmansk at 68-59-10N 033-06-30E and is designated 17 on Figure 1. The facility is secured and consists of 1 guyed vertical radiator 520 feet high with an associated studio/control building. There are also 5 small buildings in the secured area. The height of the mast is considered to be accurate within plus or minus 30 feet.

LIEPAJA/SKRUNDA AREA COMMUNICATIONS FACILITIES

The Liepaja/Skrunda area communications electronic facilities consist of 8 IIF communications sites which are designated 1-8 on Figure 25. Sites 2, 6, and 8 on Figure 25 are described

below. Sites designated 1, 3, 4, 5, and 7 on Figure 25 are associated with the MRBM complexes in the area and have been adequately reported previously. 4-8/

Priekule HF Communications Facility

The Priekule IIF Communications Facility (Figure 26) is on the northeast edge of the town of Priekule, 19 nm southeast of Liepaja at 56-27-30N 021-38-00E and is designated 2 on Figure 25. The site was first observed under construction on [] photography of []. The facility consists of 7 probable horizontal dipole antennas, 1 control building, and 1 support building. Since [] this facility has been uninterpretable on photography.

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Table 8. Priekule HF Communications Antennas

Designation	Type	Length (ft)	Height (ft)	Propagation Azimuth (deg)
1	Prob horizontal dipole	[]	Undet	[]
2	Prob horizontal dipole	110	Undet	
3	Prob horizontal dipole	225	Undet	
4	Prob horizontal dipole	[]	Undet	
5	Prob horizontal dipole	110	Undet	
6	Prob horizontal dipole	[]	Undet	
7	Prob horizontal dipole	[]	Undet	

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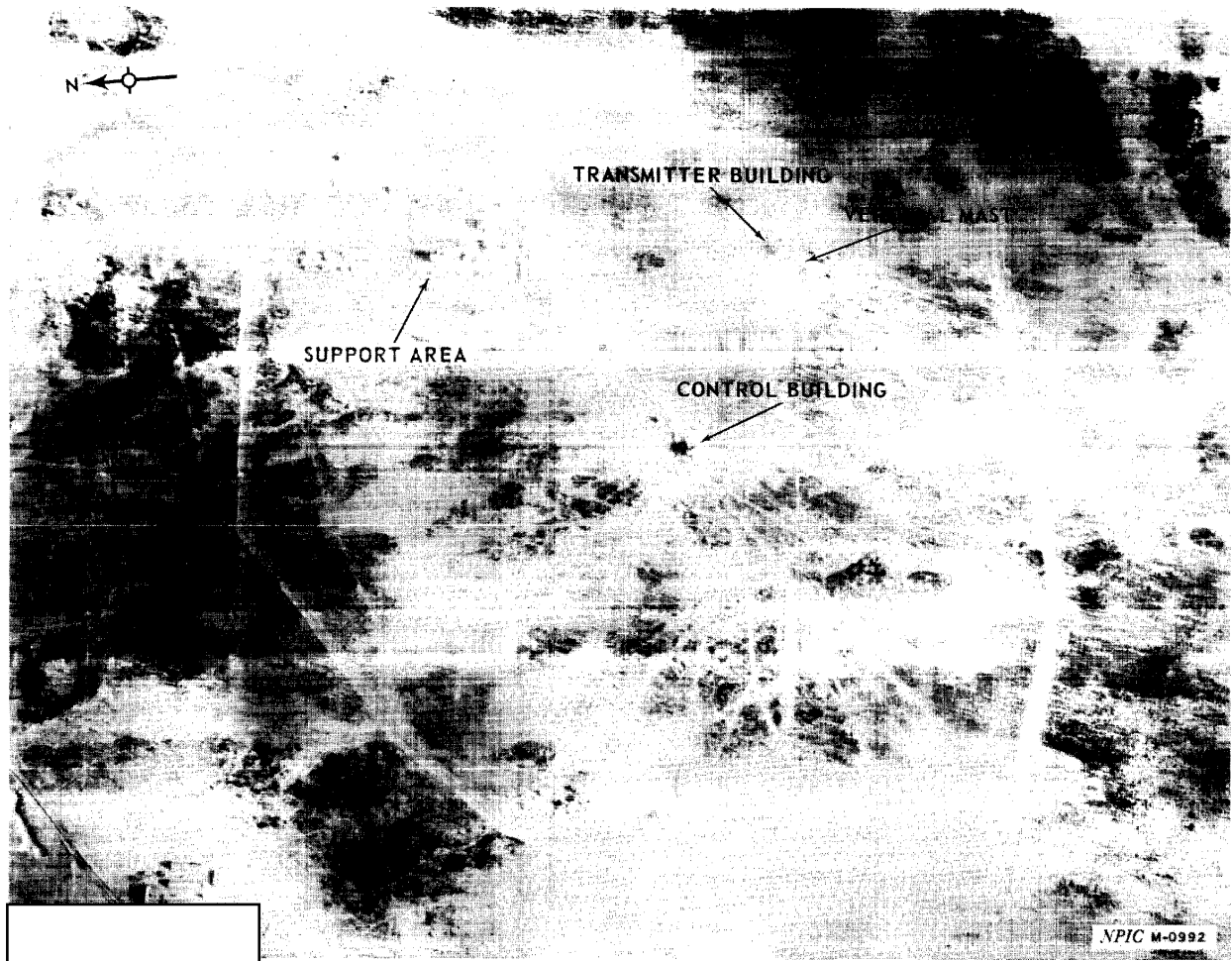
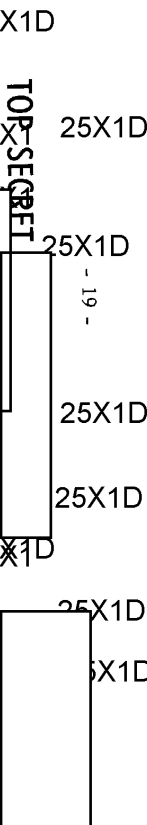


FIGURE 20. OLENEGORSK REGIONAL HF COMMUNICATIONS TRANSMITTING FACILITY.

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FIGURE 22. OLENEGORSK HF COMMUNICATIONS FACILITY.

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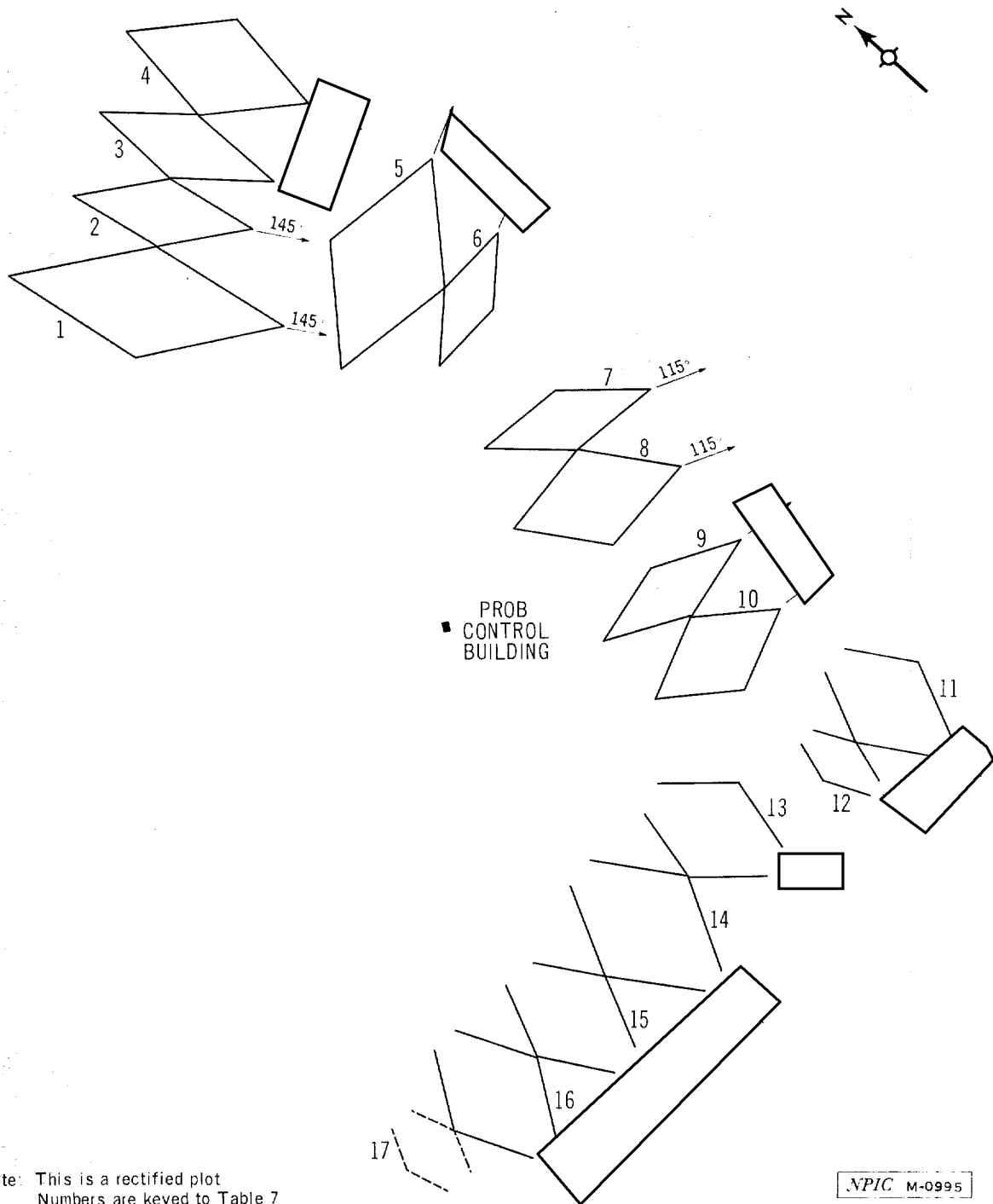
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FIGURE 23. LAYOUT OF OLENEGORSK HF COMMUNICATIONS FACILITY.

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Meskuicai HF Communications Site

The Meskuicai HF Communications Site (Figure 27) is 3.5 nm northwest of the town of Meskuicai at 56-06-30N 023-23-00E and is designated 6 on Figure 25. The facility consists of 4 rhombic antennas which are arranged in 2 day/night pairs, 1 control building, and 5 support buildings. In Table 9, the linear measurements are considered to be accurate within plus or minus 5 percent and the azimuthal measurements are accurate within plus or minus 5 degrees.

Jelgava HF Communications Site

The Jelgava HF Communications Site (Figure 28) is approximately 1 nm south of the town of Jelgava at 56-37-20N 023-41-30E and is designated 8 on Figure 25. The facility is secured and consists of 6 central fed horizontal dipole antennas, 1 control building, and 3 support buildings. The site was first observed on

In Table 8, the linear dimensions are considered to be accurate within plus or minus 5 percent and the azimuthal measurements are accurate within plus or minus 5 degrees.

In Table 10, the linear dimensions are considered to be accurate within plus or minus 5 percent and the azimuthal measurements are accurate within plus or minus 5 degrees.

Table 9. Meskuicai HF Communications Antennas

Designation	Type	Major Axis (ft)	Minor Axis (ft)	Length of Side (ft)	Pole Height (ft)	Tilt Angle (deg)	Propagation Azimuth (deg)
1	Rhombic			420	Undet	55	
2	Rhombic	420	280		Undet	55	
3	Rhombic				Undet	55	
4	Rhombic	710	485	430	Undet	55	

Table 10. Jelgava HF Communications Antennas

Designation	Type	Length (ft)	Height (ft)	Propagation Azimuth (deg)
1	Dipole	130	Undet	5/185
2	Dipole	90	Undet	5/185
3	Dipole		Undet	
4	Dipole		Undet	
5	Dipole		Undet	
6	Dipole		Undet	

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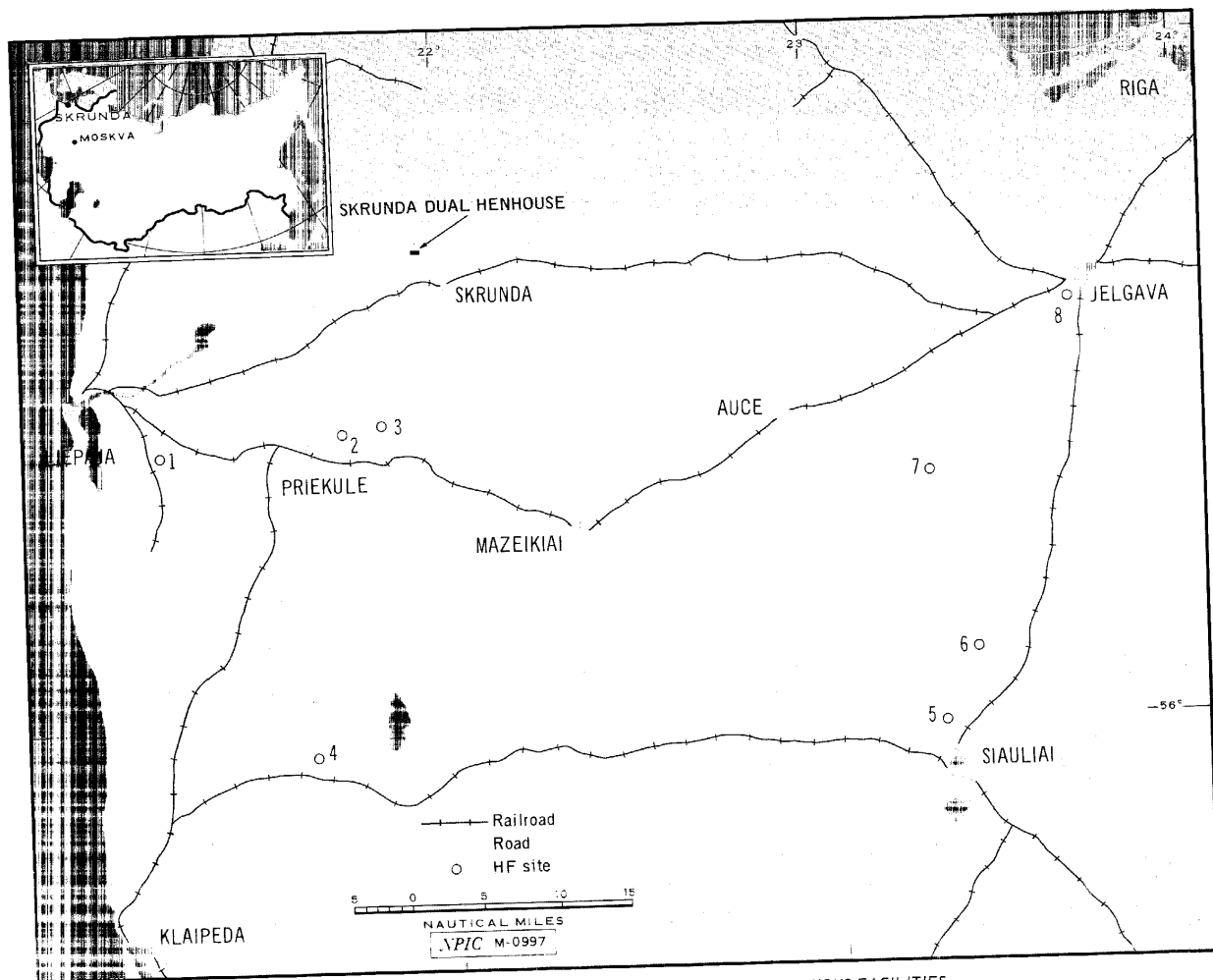


FIGURE 25. LOCATION OF LIEPAJA-SKRUNDA AREA COMMUNICATIONS FACILITIES.

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MAPS OR CHARTS

ACIC series, scale 1:1,000,000

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2. NPIC. [redacted] *Murmansk Probable Ionospheric Scatter Facility 1, USSR*, Sep 67 (TOP SECRET [redacted])
3. CIA. [redacted] *Communications Scatter Antennas, Murmansk, USSR*, Dec 65 (TOP SECRET [redacted])
4. NPIC. [redacted] *Paplaka MREM Launch Complex Communications Facility, USSR*, Apr 67 (TOP SECRET [redacted])
5. NPIC. [redacted] *New HF Communications Facilities at Soviet MRBM, IRBM Launch Areas*, Aug 64 (TOP SECRET [redacted])
6. NPIC. [redacted] *Sateikiai MREM Launch Complex Communication Facility, USSR*, Apr 67 (TOP SECRET [redacted])
7. NPIC. [redacted] *Siauliai SRF Probable Regional Headquarters Facility, USSR*, May 67 (TOP SECRET [redacted])
8. NPIC. [redacted] *HF Communications Facilities at Soviet MRBM and IRBM Complexes (Update)*, Jan 67 (TOP SECRET [redacted])

REQUIREMENT

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